

inventor: J. Brian Windsor, et al.

Title: GENETIC AND EPIGENETIC MANIPULATION OF ABC TRANSPORTERS AND ECTO-PHOSPHATASES FOR THE CONFERENCE OF DRUG RESISTANCE AND FOR THE LOSS OF DRUG RESISTANCE IN BIOLOGICAL SYSTEMS AND METHODS FOR THE DETECTION OF ECTO-PHOSPHATASE INHIBITORS  
Serial #: 10/047,251

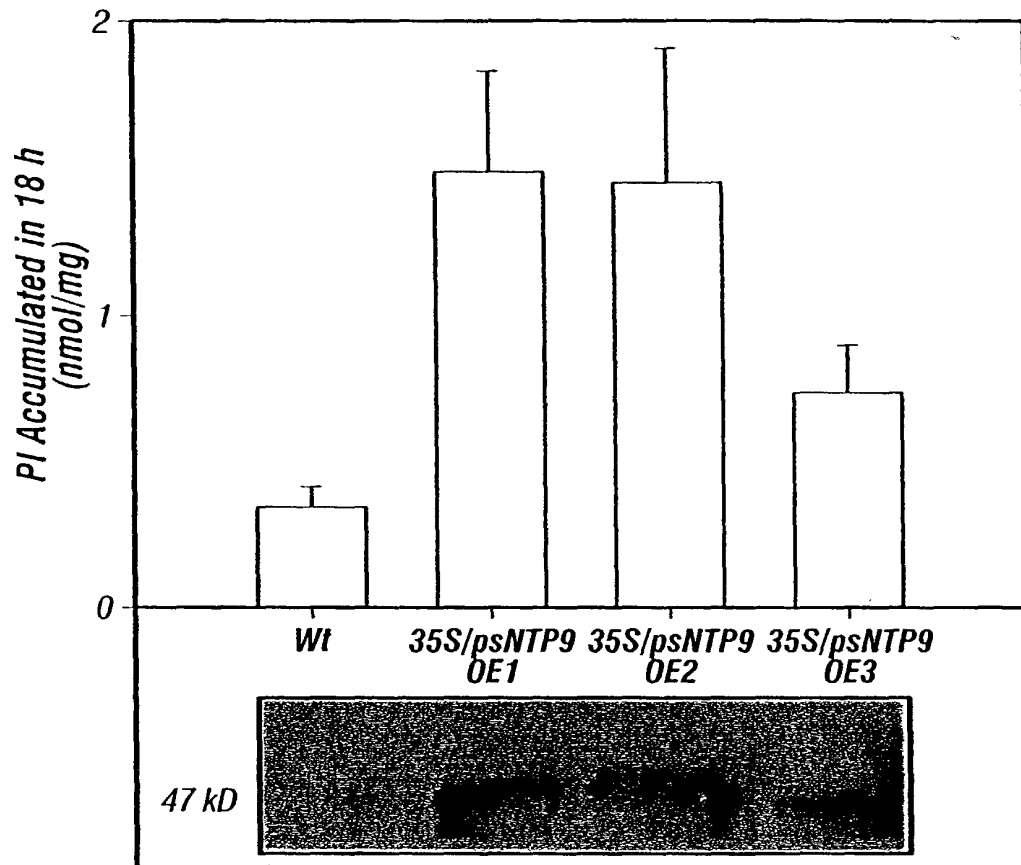
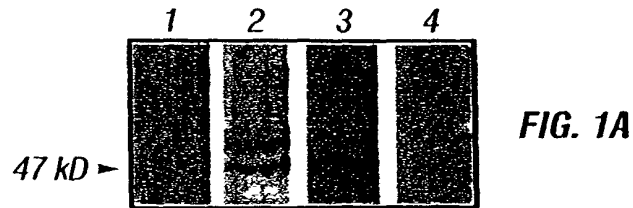


FIG. 1B

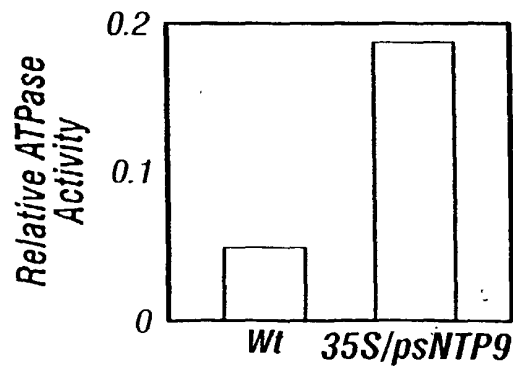


FIG. 1C

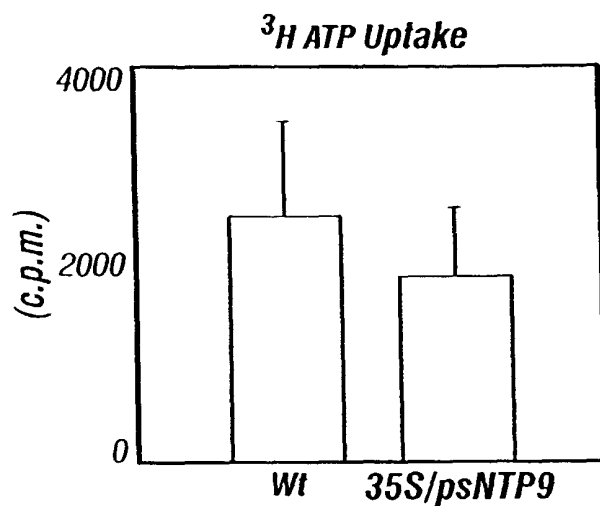


FIG. 2A

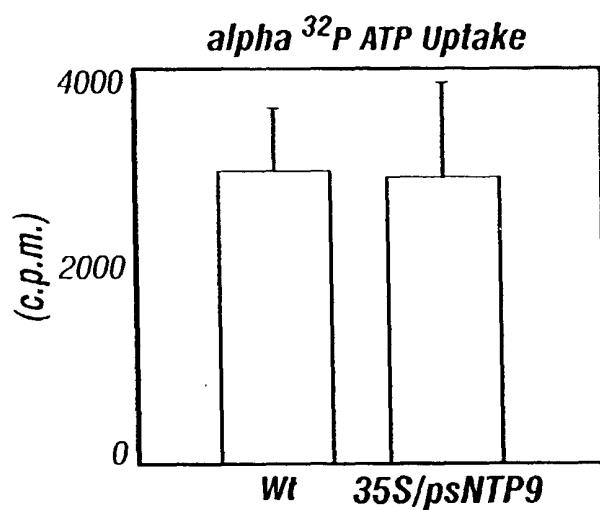


FIG. 2B

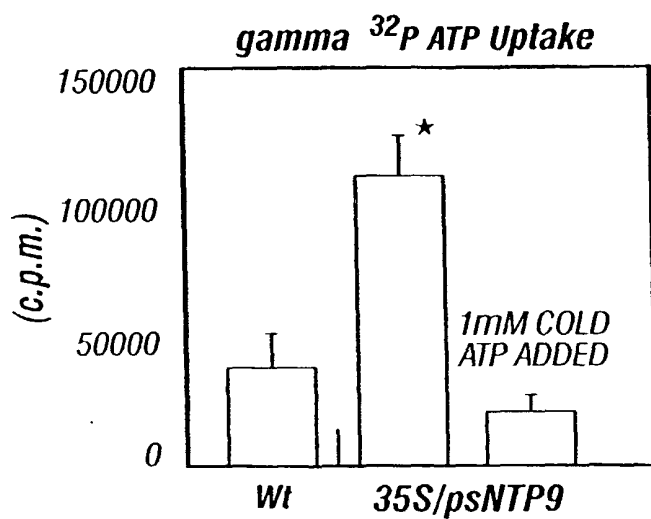
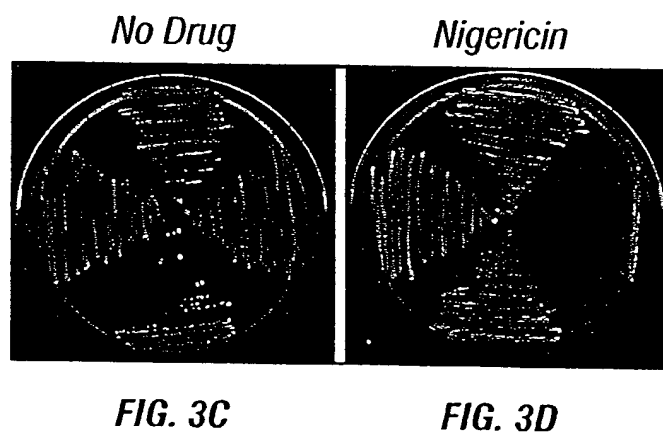
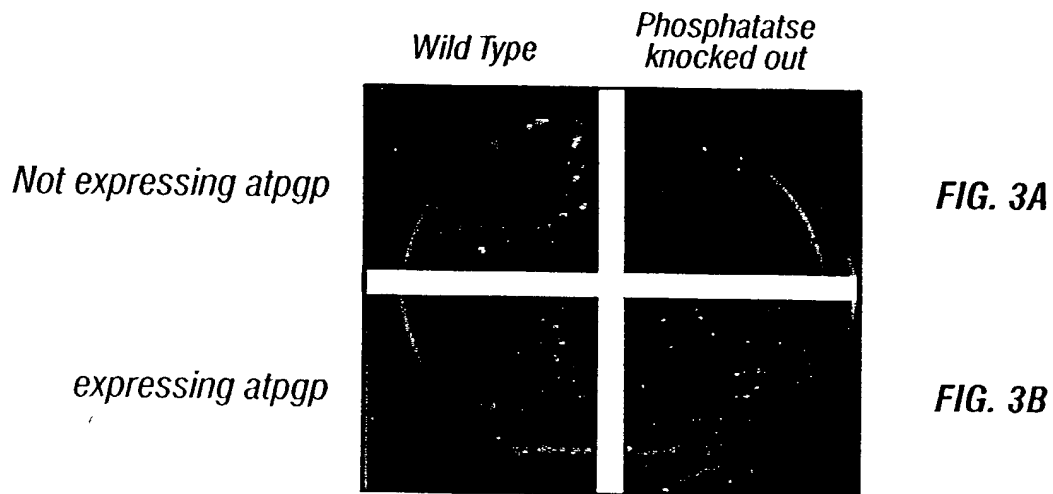


FIG. 2C



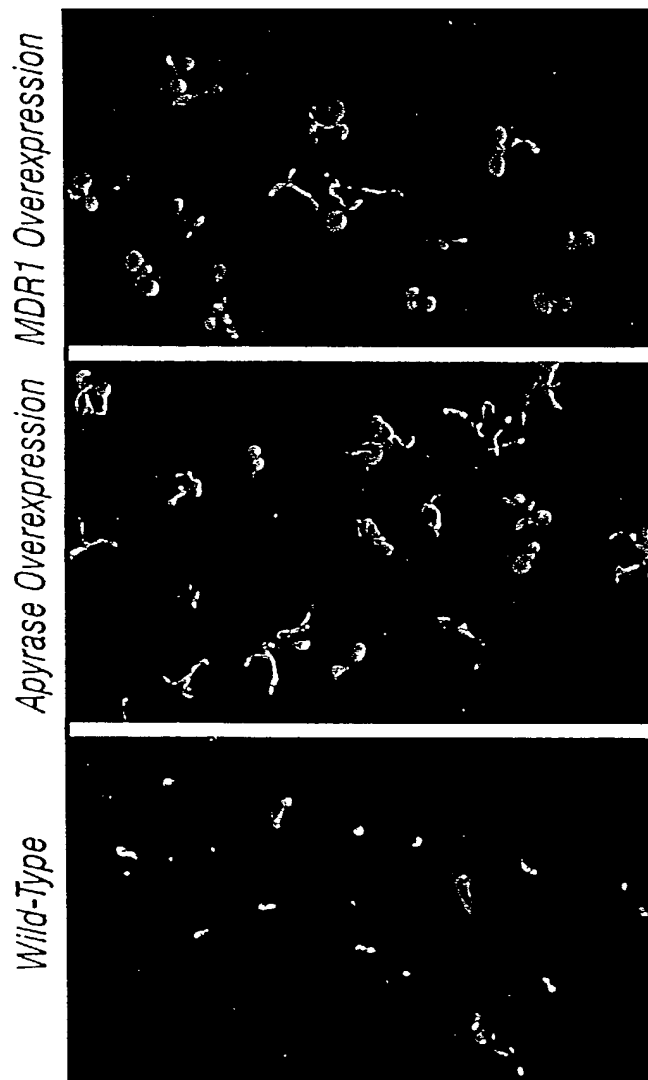


FIG. 4A

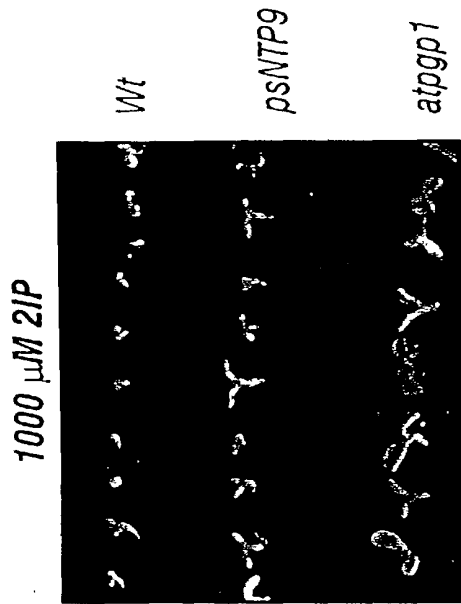


FIG. 4B-2

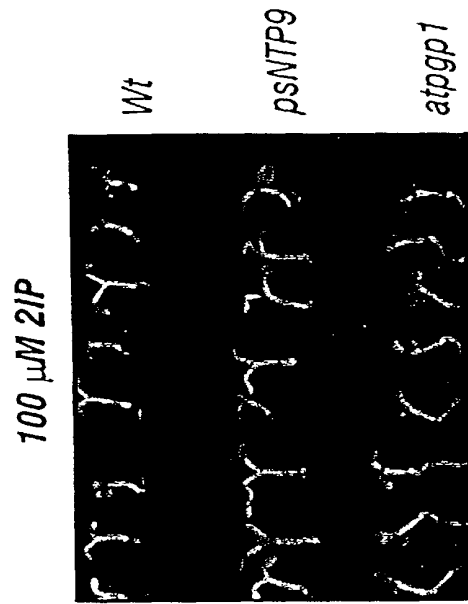


FIG. 4B-3

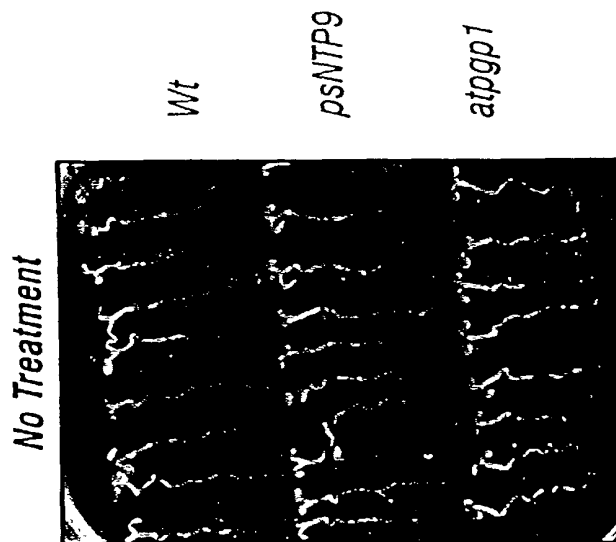


FIG. 4B-1

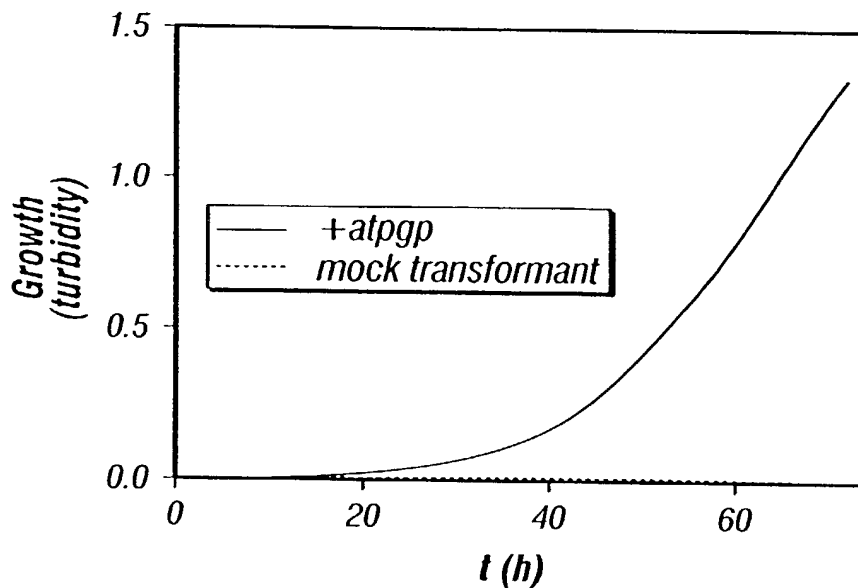


FIG. 5A

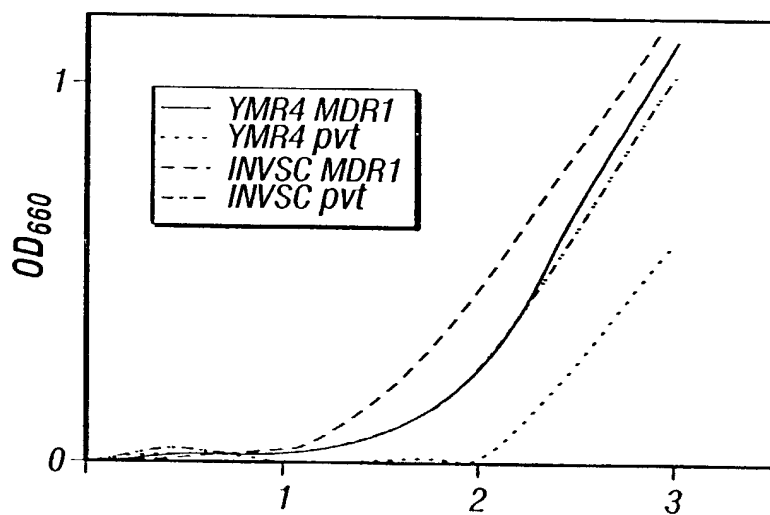
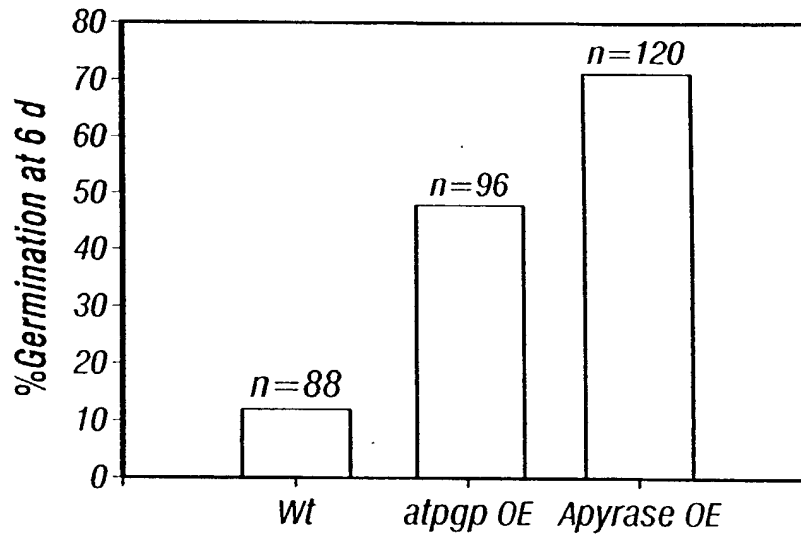
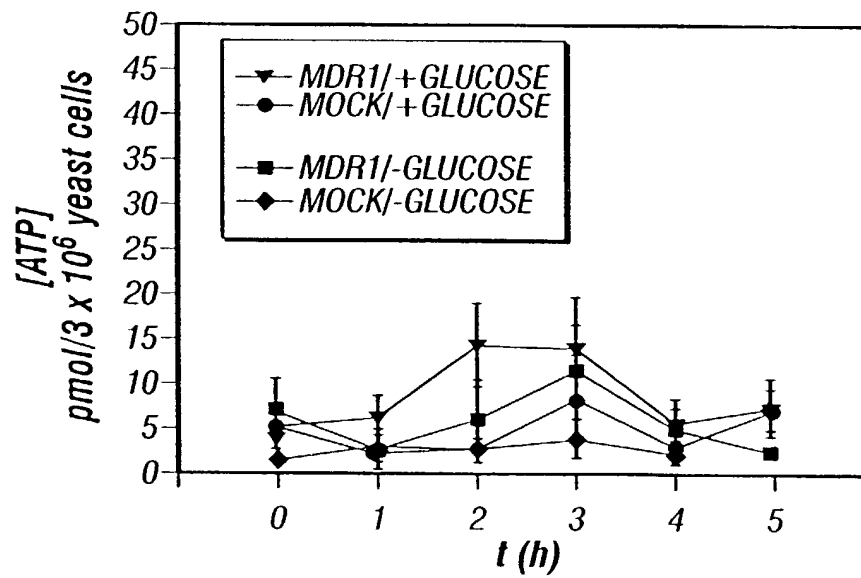


FIG. 5B



**FIG. 6**



**FIG. 7**

Inventor: J. Brian Windsor, et al.

Title: GENETIC AND EPIGENETIC MANIPULATION OF  
ABC TRANSPORTERS AND ECTO-PHOSPHATASES  
FOR THE CONFERENCE OF DRUG RESISTANCE AND  
FOR THE LOSS OF DRUG RESISTANCE IN  
BIOLOGICAL SYSTEMS AND METHODS FOR THE  
DETECTION OF ECTO-PHOSPHATASE INHIBITORS  
Serial #: 10/047,251

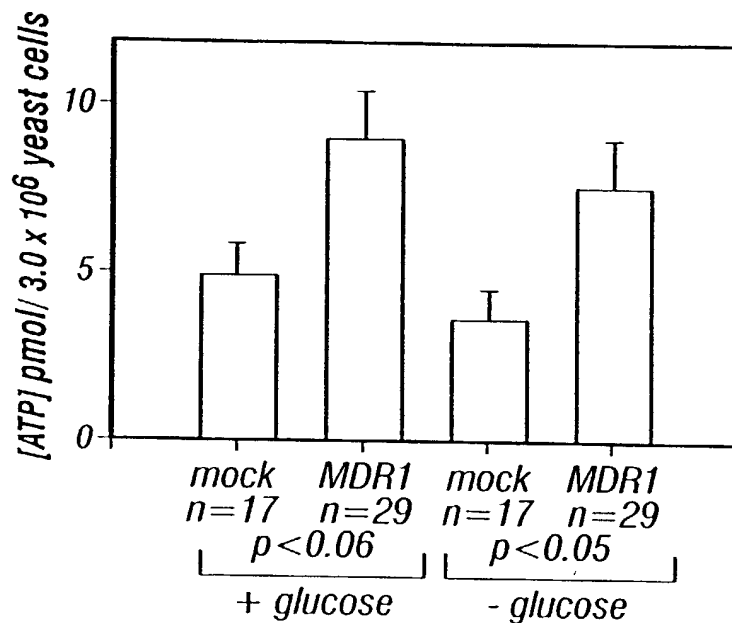


FIG. 8

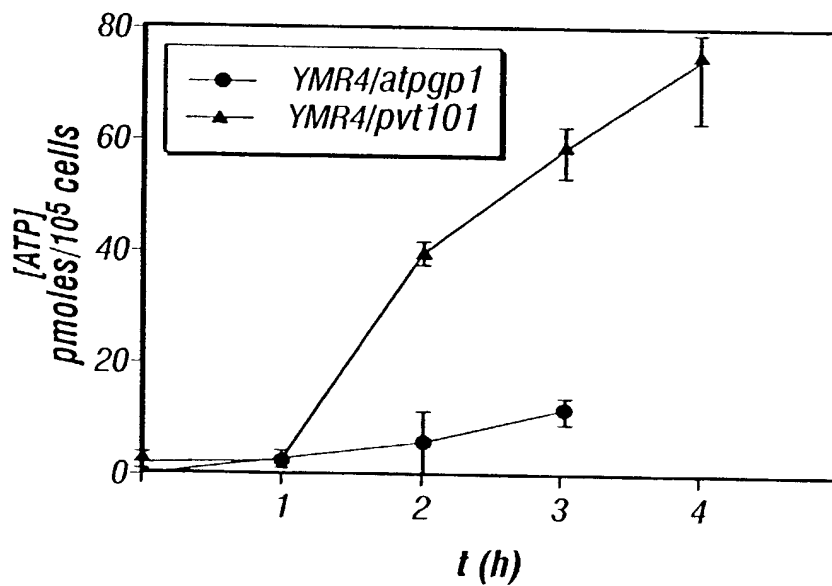


FIG. 9

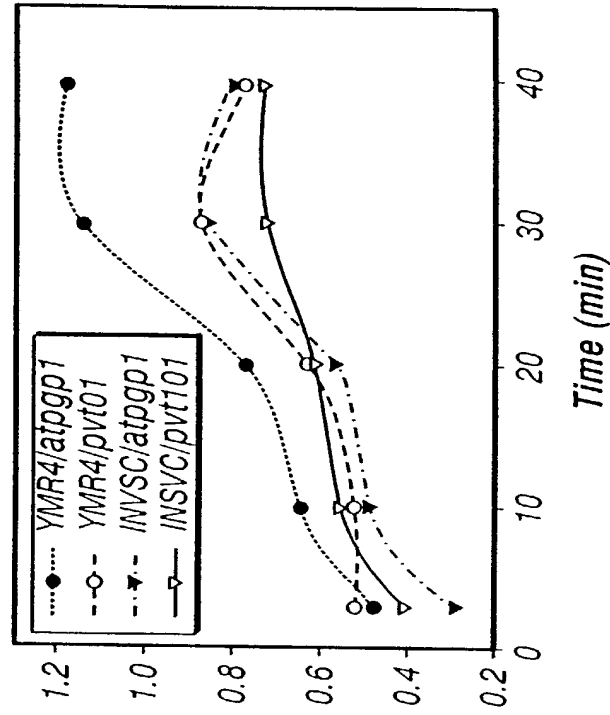


FIG. 10

Inventor: J. Brian Windsor, et al.

Title: GENETIC AND EPIGENETIC MANIPULATION OF ABC TRANSPORTERS AND ECTO-PHOSPHATASES FOR THE CONFERENCE OF DRUG RESISTANCE AND FOR THE LOSS OF DRUG RESISTANCE IN BIOLOGICAL SYSTEMS AND METHODS FOR THE DETECTION OF ECTO-PHOSPHATASE INHIBITORS  
Serial #: 10/047,251

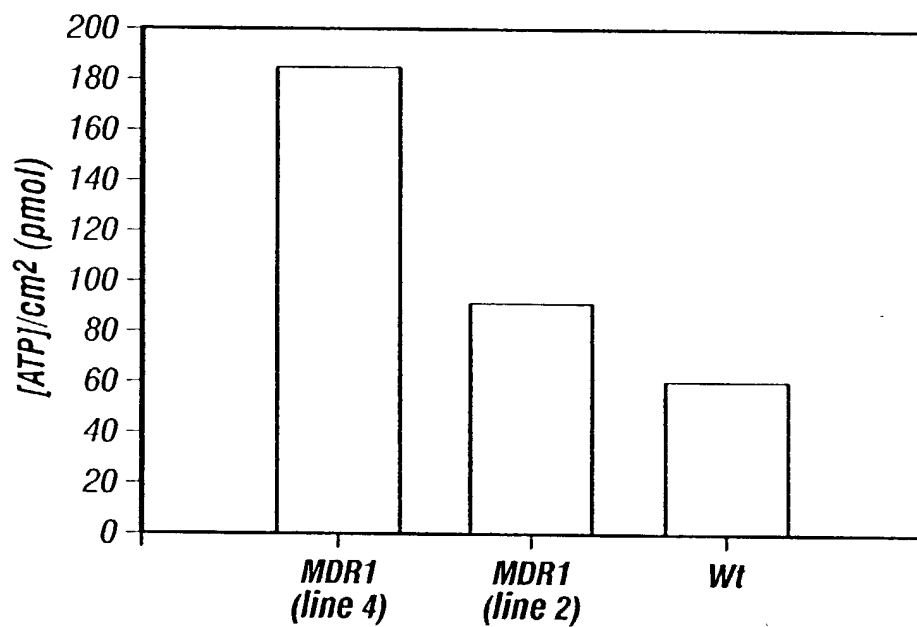


FIG. 11

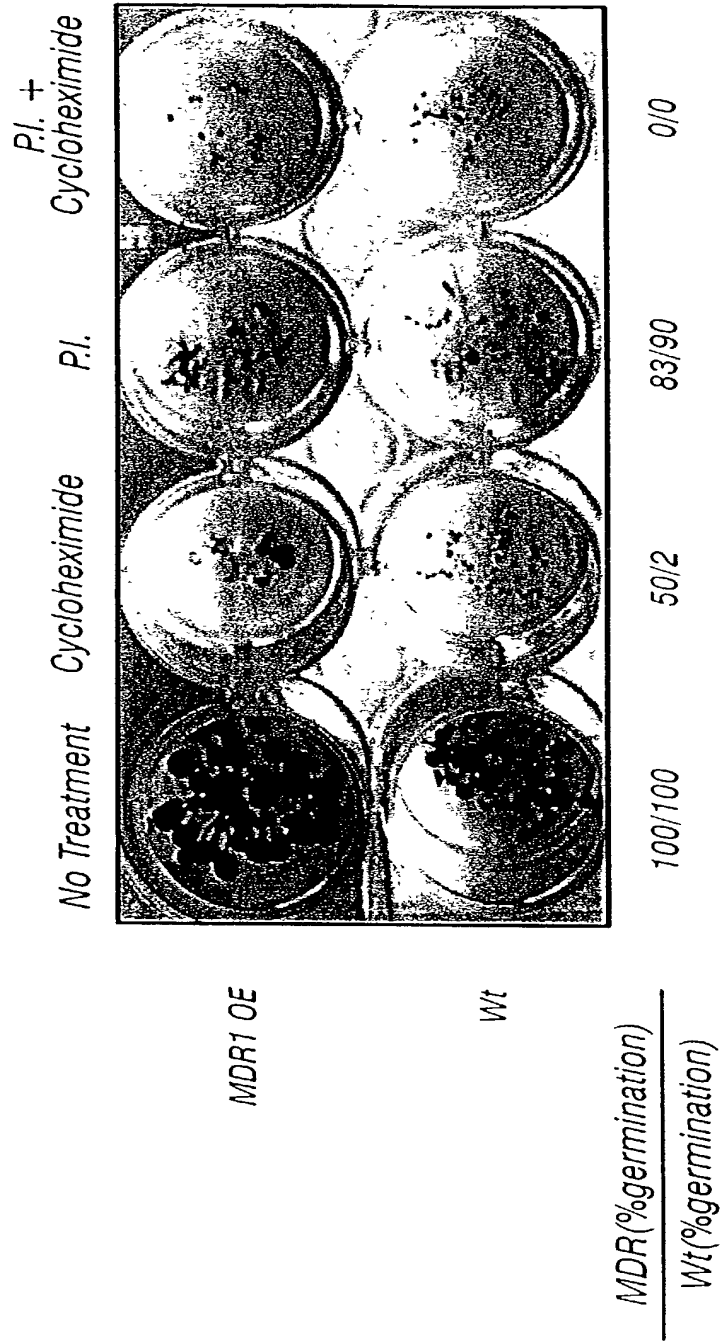


FIG. 12

**Drug selected Cells   Cells cultured only on Media**

**Cycloheximide**

ym4mdr1	0.754	0.014
ymr4 pvt	0.017	0.016
inv scmdr1	0.683	0.013
inv sc pvt	0.985	0.005

**ATP +cycloheximide**

ym4mdr1	0.001	0.001
ymr4 pvt	0.002	0.001
inv scmdr1	0.001	0.002
inv sc pvt	0.001	0.002

**ATP**

ym4mdr1	0.016	0.585
ymr4 pvt	0.001	0.697
inv scmdr1	0.271	1.267
inv sc pvt	0.052	0.213

**Media alone**

ym4mdr1	1.477	1.478
ymr4 pvt	1.437	1.484
inv scmdr1	1.498	1.483
inv sc pvt	1.488	1.435

**FIG. 13**

**Media alone**

ymr mdr1 1.376

ymr4 pvt 1.429

**Cycloheximide**

ymr mdr1 0.937

ymr4 pvt 0.001

**PQ<sub>4</sub> alone**

ymr mdr1 1.351

ymr4 pvt 1.341

**PQ<sub>4</sub> and Cycloheximide**

ymr mdr1 0.541

ymr4 pvt 0.001

**Adenosine alone**

ymr mdr1 1.319

ymr4 pvt 1.354

**Adenosine and Cycloheximide**

ymr mdr1 0.632

ymr4 pvt 0.002

**Adenoside and PQ<sub>4</sub> alone**

ymr mdr1 0.899

ymr4 pvt 1.342

**Adenoside and PQ<sub>4</sub> and Cycloheximide**

ymr mdr1 0.389

ymr4 pvt 0.001

**FIG. 14**